TRANE	50712058	SHEET 1 OF 3	REV A
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DRAWN BY: D.SHERRILL ©TRANE DATE:08-MAY-2017	RTAC AFD RETROFIT		
REPLACES:	4 COMPRESSOR UNIT		
REVISION DATE:			
SIMILAR TO:	DEVICES, DESCRIPTIONS & DESIGNATIONS		

DEVICES, DESCRIPTIONS & DESIGNATIONS

LEGEND

DEVICE DESIGNATION	LINE NUMBER	DESCRIPTION
1B1	21	PANEL VENTILATION FAN
1CB1	7	HACR CIRCUIT BREAKER, CIRCUIT 1
1CB2	13	HACR CIRCUIT BREAKER FOR AFD CIRCUIT1
1F15	17	CONTROL POWER TRANSFORMER SECONDARY FUSE, 115 VOLT CIRCUIT
1F16, 1F17	15,16	CONTROL POWER TRANSFORMER SECONDARY FUSE, LOW VOLTAGE CIRCUIT
1K5	20,22,45	START CONTACTOR, COMPRESSOR 1B
1K9	24	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K10	27	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K11	30	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K12	33	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K13	33	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K14	10	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K20	21,22,37,43,46	RELAY; AFD CIRCUIT 1 STATUS
1K30	35,39	RELAY; HIGH PRESSURE CUTOUT CIRCUIT 1
1SW1	7	DISCONNECT SWITCH FOR CUSTOMER POWER WIRING, CIRCUIT 1
1T1	15	CONTROL POWER SUPPLY TRANSFORMER
1T9	109	POTENTIAL VOLTAGE TRANSFORMER, UNDER/OVER VOLTAGE.
1TB1	7	TERMINAL BLOCK FOR CUSTOMER POWER WIRING, CIRCUIT 1
1TB5	VARIOUS LOCATIONS	FACTORY CONTROL WIRING TERMINAL STRIP
1TS4	21	VENTILATION FAN OFF/ON TEMPERATURE CONTROL SWITCH (CONTROL PANEL 1)
1U15	21	QUAD RELAY OUTPUT, FAN CONTROL, CIRCUIT 1
1U30	45	CONTROL MODULE, UC800
1U1	12,37	AFD, CIRCUIT 1
1U19	107	STARTER MODULE, COMPRESSOR 1B
2CB1	67	HACR CIRCUIT BREAKER, CIRCUIT 2
2CB2	74	HACR CIRCUIT BREAKER FOR AFD CIRCUIT2
2F15	78	CONTROL POWER TRANSFORMER SECONDARY FUSE, 115 VOLT CIRCUIT
2F16	76	CONTROL POWER TRANSFORMER SECONDARY FUSE, LOW VOLTAGE CIRCUIT
2F17	77	CONTROL POWER TRANSFORMER SECONDARY FUSE, LOW VOLTAGE CIRCUIT
2K5	80,82,103	START CONTACTOR, COMPRESSOR 2B
2K9	83	CONDENSER FAN CONTACTOR, CIRCUIT 2
2K10	86	CONDENSER FAN CONTACTOR, CIRCUIT 2
2K11	89	CONDENSER FAN CONTACTOR, CIRCUIT 2
2K12	92	CONDENSER FAN CONTACTOR, CIRCUIT 2
2K13	93	CONDENSER FAN CONTACTOR, CIRCUIT 2
2K20	81,82,98,102,106	RELAY, AFD CIRCUIT 2 STATUS
2K30	96,99	RELAY, HIGH PRESSURE CUTOUT CIRCUIT 2
2SW1	67	DISCONNECT SWITCH FOR CUSTOMER POWER WIRING, CIRCUIT 2
2T1	75	CONTROL POWER SUPPLY TRANSFORMER
2TB1	80	TERMINAL BLOCK FOR CUSTOMER POWER WIRING, CIRCUIT 2
2TB5	VARIOUS LOCATIONS	FACTORY CONTROL WIRING TERMINAL STRIP
2TS4	80	VENTILATION FAN OFF/ON TEMPERATURE CONTROL SWITCH (CONTROLPANEL 2)
2U1	73,99	AFD CIRCUIT 2
2U15	82	QUAD RELAY OUTPUT, FAN CONTROL, CIRCUIT 2
3B20	47	MOTOR, FAN, AFD ENCLOSURE CIRCUIT 1
3B1	14	MOTOR, COMPRESSOR 1A, CIRCUIT 1
3HR1	21	COMPRESSOR 1A HEATER CIRCUIT 1
3HR2	22	OIL SEPERATOR HEATER CIRCUIT 1
3L7	43	OIL LINE VALVE COMPRESSOR 1A
3L8	45	OIL LINE VALVE COMPRESSOR 1B
3PS1	34	HIGH PRESSURE CUTOUT SWITCH, COMPRESSOR 1A
3T2	12	CHOKES, CIRCUIT 1
3TS1	47	VENTILATION TEMPERAUTE SWITCH, AFD ENCLOSURE CIRCUIT 1
4B20	105	MOTOR, FAN, AFD ENCLOSURE CIRCUIT 2
4B1	76	MOTOR, COMPRESSOR 2A, CIRCUIT 2
4HR1	81	COMPRESSOR 2A HEATER CIRCUIT 2
4HR2	82	OIL SEPERATOR HEATER CIRCUIT 2
4L7	102	OIL LINE VALVE COMPRESSOR 2A
4L8	104	OIL LINE VALVE COMPRESSOR 2B
4PS1	96	HIGH PRESSURE CUTOUT SWITCH, COMPRESSOR 2A
4T2	73	CHOKES, AFD CIRCUIT 2
4TS1	105	VENTILATION TEMPERAUTE SWITCH, AFD ENCLOSURE CIRCUIT 2
6RT4	117	COMPRESSOR DISCHARGE TEMPERATURE SENSOR, COMPRESSOR 1A
6RT5	120	COMPRESSOR DISCHARGE TEMPERATURE SENSOR, COMPRESSOR 2A

GENERAL & FLAG NOTES

1. WIRING FOR 460V UNIT SHOWN. SEE INSET "A" FOR CONTROL POWER TRANSFORMER WIRING FOR OTHER VOLTAGES.
2. FOR LOW AND WIDE AMBIENT OPTION, 1K9 IS NOT PRESENT. SEE INSET "C"
3. WIRING FOR 460V UNIT SHOWN. SEE INSET "D" FOR CONTROL POWER TRANSEORMER WIRING FOR OTHER VOLTAGES.
4. FOR LOW AND WIDE AMBIENT OPTION, 2K9 IS NOT PRESENT. SEE INSET "F"
5. CONTROLS & ASSOCIATED WIRING ARE USED ONLY WHEN THE CONTROL PANEL VENTILATION FAN IS PROVIDED.
6. FOR LOW & WIDE AMBIENT OPTION HEATERS & THERMOSTAT REQUIRED.
7. REFER TO EXISTING UNIT SCHEMATICS FOR SPECIFIC CONNECTION DETAIL.
8. OIL SOLENOIDS MAY NOT BE INSTALLED ON SOME UNITS, REFER TO EXISTING UNIT CONFIGURATION.
9. UNDER/OVER VOLTAGE DETECTION MUST BE MOVED FROM STARTER MODULE 1U14 TO STARTER MODULE 1U19, COMPRESSOR 1B.
10. DISCHARGE TEMPERATURE SENSORS MUST BE INSTALLED ON COMPRESSORS WITH AFD DRIVE, 1A AND 2A.
11. COMPONENTS SPECIFIC TO AFD RETROFIT KIT.

NOTES:
COMPONENTS (LLIDS) ARE NOT NECESSARILY WIRED ON THE IPC BUS IN THE ORDER SHOWN.

⚠ WARNING

HAZARDOUS VOLTAGE!

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⚠ AVERTISSEMENT

TENSION DANGEREUSE!

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⚠ ADVERTENCIA

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CAUTION

USE COPPER CONDUCTORS ONLY!

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

PRECAUCIÓN

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ATTENTION

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TRANE	50712058	SHEET 2 OF 3	REV A
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DRAWN BY: D.SHERRILL ©TRANE DATE: 08-MAY-2017	RTAC AFD RETROFIT		
REPLACES:	4 COMPRESSOR UNIT		
REVISION DATE:	COMPRESSOR POWER 1A FAN CONTROL CIRCUIT 1		
SIMILAR TO:			

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SINGLE/DUAL SOURCE POWER PANEL

L1 L2 L3

A B C

1CB1 1TB1 1SW1

1 ACEGJK 2 ACEGJK 3 ACEGJK

1CB4

1U1 AFD CIRCUIT1

91(L1) 92(L2) 93(L3) 96(U) 97(V) 98(W) 99(PE)

3T2 CHOKES

T1 T6 T2 T4 T3 T5

3B1

CIRCUIT 1 COMPRESSOR 1A

INSET "A"

125A,B 380V 60HZ 220V 50HZ 126A,B H1 H2

125A,B 575V 60HZ 230V 60HZ 126A,B H1 H2 H3

400V 50HZ UNIT IS FACTORY WIRED AS SHOWN, RECONNECT WIRES 126A,B TO TERMINALS H2 OR H4 FOR 380V 50HZ OR 415V 50HZ POWER SUPPLIES

125A,B 126A,B H1 380V H2 H3 415V H4

125A 126A 200V 60HZ 460V 60HZ H1 H2 H3 1T1

115V X1 X2 24V X3 X4

61A 1XP3-4 11F15 1TB5-A 62B,C,AM 62CA,CB,DB 1XP1-2(B) 1XJ1-2(CA) 62 1XP5-3(C) 1XJ5-3(CB) 1XP1-1(AM) 1XJ1-1(DB)

61CA 1XJ3-4 63A 63B 116A 1XP3-5 116CA 1XJ3-5 1F16 117CA

127A 1XP3-6 127CA 1XJ3-6 1F17 115CA

63CA 63B

TO 1U2 POWER SUPPLY, J2

1TB5-9 63 63DE,BC

1U15 FAN CONTROL MODULE CIRCUIT 1 QUAD RELAY J2

1TB5-3 62 62C,H

1K5 AUX3 AP A 1K20 AM,AP 134A,B B 1TS4 133A 1B1 BC 63DE

1K20 B,E 64A 64C 1K5 AUX4 1TB5-18 130 SPLICE 3HR1 3HR2 1TB5-10 63 D,AR AR

INSET "C"

73CA 1XJ7-3 73A 1XP7-3 1K9 K

62C,D 74CA 1XJ7-4 74A 1XP7-4 1K10 G,J

62C,E 74CA 1XJ7-5 74A 1XP7-5 75A 1K11 Q,BD

62C,G 76CA 1XJ7-6 76A 1XP7-6 76A,B 1K12 J,Q

76B 1K13 BD

J11 J1 WB1

(RED) SPLICE 91A TO 1U22 DUAL HIGH VOLTAGE INPUT

62C,CE,CJ 1TB5-2 62 D SPLICE (WHT) 3PS1 P (BLK) SPLICE 65A 1K30

1U1 AFD CIRCUIT1

12 24V OUT 4 RELAY (RUNNING) 5

1K20 1K30 37 SAFE STOP

61 68 69 BK BLU GY

NO CONNECTION X RED

IMC 1

1U30 UC800 UNIT CONTROLLER

RED +24 VDC BLK GND BLU + GRY − MBUS

TO 1U2 POWER SUPPLY

SERVICE TOOL TO USB SERVICE PORT

ETHERNET TO 4A2 ADAPTIVIEW DISPLAY MONITOR

IMC 1 RED BLK BLU GRY

TO 2U1 AFD CIRCUIT 2 LINE 107

1TB5-6 62 62EA 1XJ1-3 62EB 1XP1-3 1K20 95A SPLICE 95B SPLICE 3L7 SPLICE 63AW 1TB5-16 563

W10 W11 1K5 AUX 5 96A SPLICE 96B SPLICE 3L8 SPLICE 63AX 1TB5-15 563

1K20 3TS1 3B20

H 62C

N 63BB

TO LINE 61

CAUTION

TRANE PUMP CONTROL MUST BE USED TO PROVIDE PUMP CONTROL. EVAPORATOR CHILLED WATER PUMP MUST BE CONTROLLED BY THE CHILLER OUTPUT.

FAILURE TO COMPLY WITH THIS REQUIREMENT COULD RESULT IN DAMAGE TO THE UNIT.

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DRAWN BY: D.SHERRILL ©TRANE DATE: 08-MAY-2017
REPLACES:
REVISION DATE:
SIMILAR TO:

50712058 SHEET 3 OF 3 REV A

SCHEMATIC
RTAC AFD RETROFIT
4 COMPRESSOR UNIT
COMPRESSOR POWER 2A
FAN CONTROL CIRCUIT 2

CAUTION

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SINGLE SOURCE POWER OPTION
L1 L2 L3
2CB1 2TB1 2SW1
501 A C E G J K P
502 A C E G J K P
503 A C E G J K P
TO LINE 181

1CB2
91(L1)
92(L2)
93(L3)

2U1 AFD CUIRCUIT 2
96(U)
97(V)
98(W)
99(PE)

4T2 CHOKES
T1 T6
T2 T4
T3 T5
4B1
CIRCUIT 2 COMPRESSOR 2A

625A 380V 60HZ 220V 50HZ 626A H1 H2
INSET "D"
625A 575V 60HZ 230V 60HZ 626A H1 H2 H3
400V 50HZ UNIT IS FACTORY WIRED AS SHOWN, RECONNECT WIRES 626A TO TERMINALS H2 OR H4 FOR 380V 50HZ OR 415V 50HZ POWER SUPPLIES
625A 626A H1 380V H2 H3 415V H4

FROM LINE 311
625A 626A 200V 60HZ 460V 60HZ H1 H2 H3
2T1 115V 24V X1 X2 X3 X4
616A 2F16 617A
627A 2F17 615A
TO 2U2 POWER SUPPLY, J2

B,C,AM 2TB5-1 562 A 2F15 561A
B 2TB5-9 563 BC
AP 2K5 AUX 3 A
AM AM,AP 2K20 634A,B B 2TS4 633A 2B1 BC
2TB5-3 562 G M,L 562 B,E 2K20 564A
SPLICE 4HR1 SPLICE C 2TB5-10 563 D,AR
564C 2K5 AUX 4 B 2TB5-18 630 A 4HR2 SPLICE AR
573CA 2XJ7-3 573A 2XP7-3 2K9 K INSET "F"

2U15 QUAD RELAY
FAN CONTROL MODULE CIRCUIT 2
J2 12 11 10 9 8 7 6 5 4 3 2 1
J
574A 2K10 G,J
K
575A 2K11 Q,BD
L
576 A 576A,B 2K12 J,Q
576B 2K13 BD
J11 J1
WB5

2U1 AFD CIRCUIT2
12 24V OUT
37 SAFE STOP
RELAY (RUNNING) 4 5
2K20 2K30
61 68 69 BLK BLU GRY
NO CONNECTION RED
TO 1U30, UC800 LINE 55

J,K,P 2TB5-2 562 D SPLICE (WHITE) P (BLACK) 565A 2K30 SPLICE
4PS1 (RED) SPLICE 591A
TO 2U22 DUAL HIGH VOLTAGE INPUT

2TB5-6 62 62EA 1XJ1-3 62EB 1XP1-3 2K20 595A SPLICE 595B SPLICE 4L7 SPLICE 563AW 2TB5-16 563
W10 W11 2K5 AUX 5 596A SPLICE 596B SPLICE 4L8 SPLICE 563AX 2TB5-15 563

2K20 4TS1 4B20
7 562C H
7 563BB N

9 7 125B 126B 1T9 (GREEN) 107A 1XP3-1 107CA 1XJ3-1 108A 1XP3-2 108CA 1XJ3-2
1U19 J5 STARTER MODULE CIRCUIT 1 COMPRESSOR 1B

10 7 WB3/WB6
COMPRESSOR DISCHARGE TEMPERATURE SENSOR COMPRESSOR 1A 6RT4 J1
COMPRESSOR DISCHARGE TEMPERATURE SENSOR COMPRESSOR 2A 6RT5 J1

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